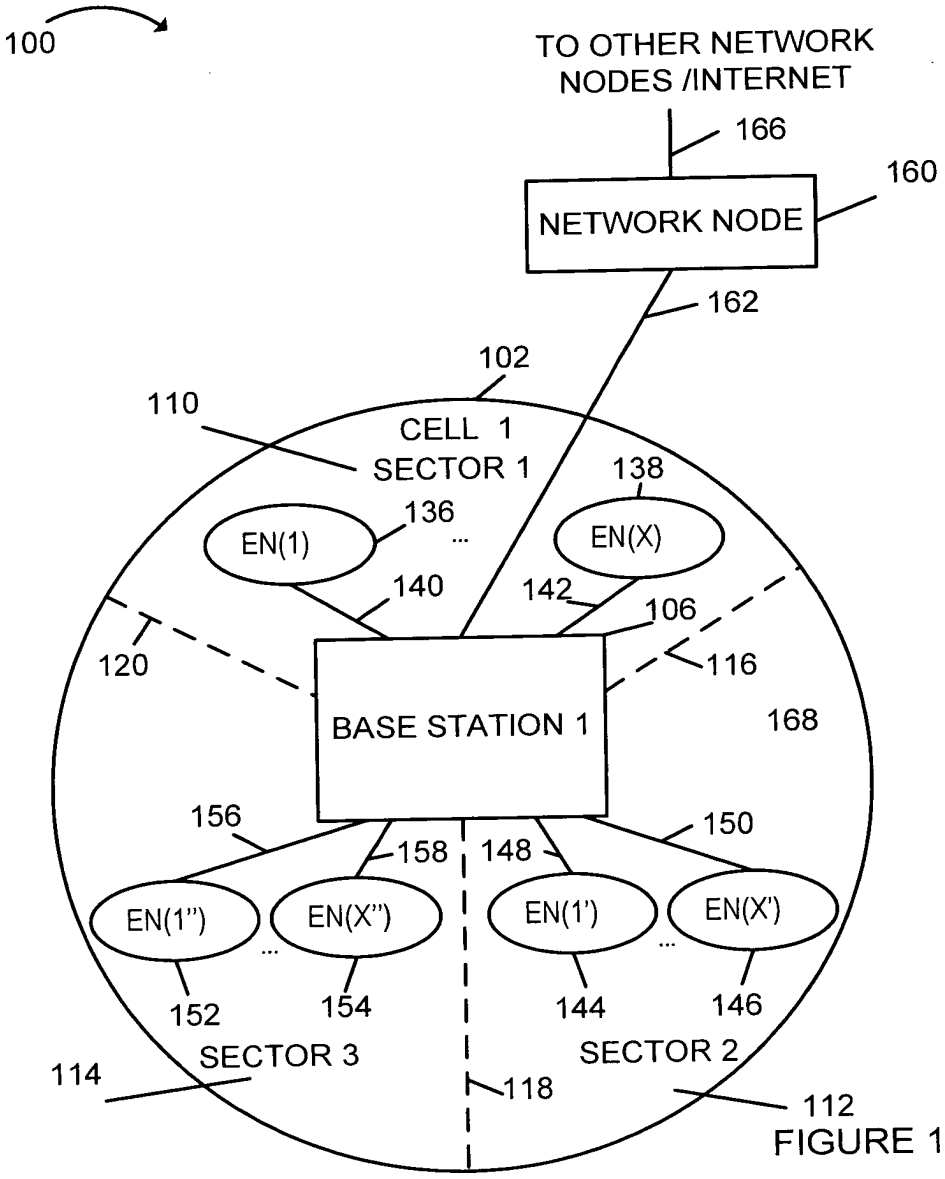
100
TO OTHER NETWORK NODES /INTERNET
166
160
NETWORK NODE
162
102
110
CELL 1
SECTOR 1
138
136
EN(1)
EN(X)
140
142
106
120
116
BASE STATION 1
168
156
158
148
150
EN(1'')
EN(X'')
EN(1')
EN(X')
152
154
144
146
SECTOR 3
SECTOR 2
114
118
112

FIGURE 1

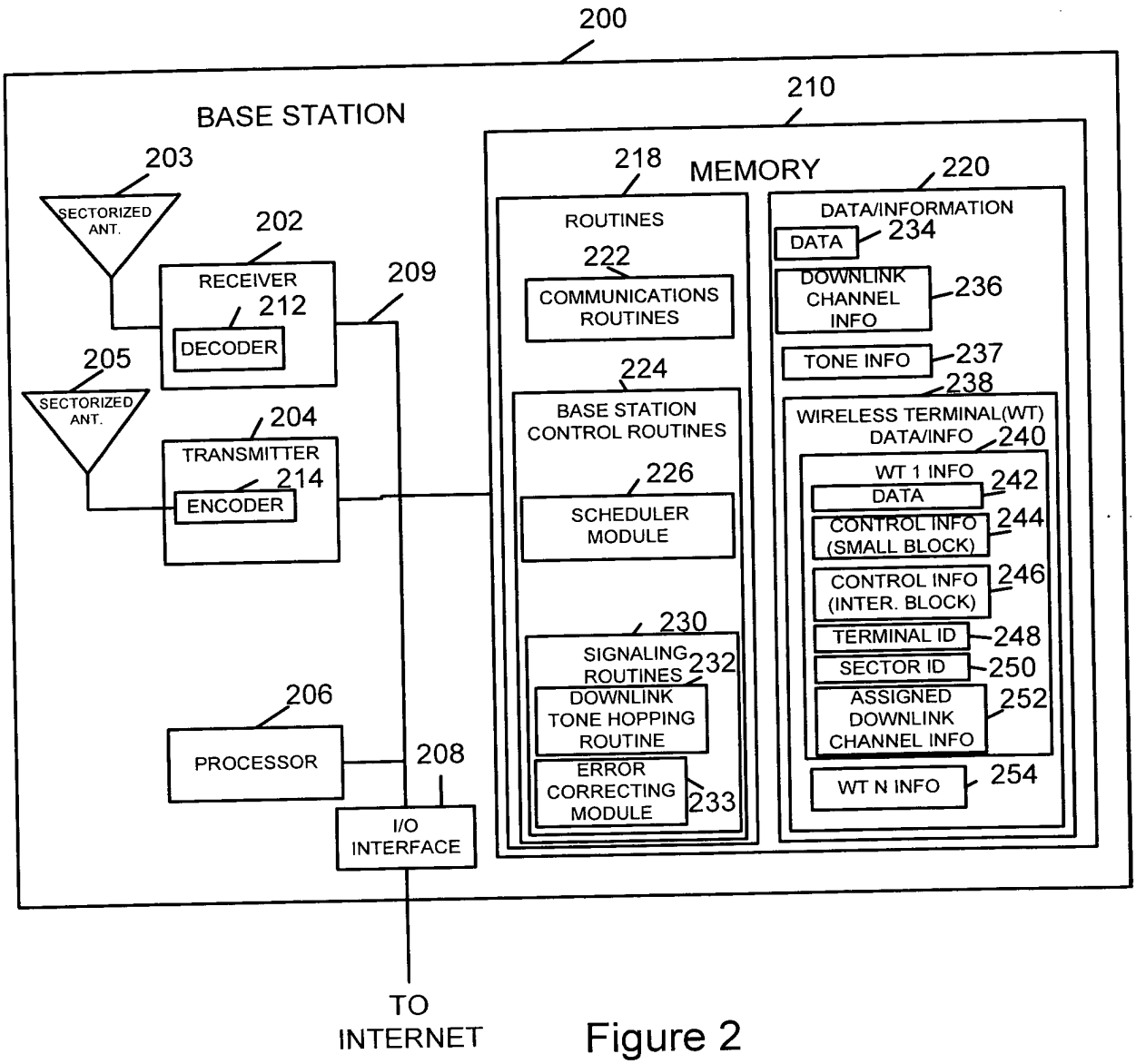
200
BASE STATION
210
MEMORY
218
220
203
SECTORIZED ANT.
202
RECEIVER
212
DECODER
209
205
SECTORIZED ANT.
204
TRANSMITTER
214
ENCODER
206
PROCESSOR
208
I/O INTERFACE
ROUTINES
222
COMMUNICATIONS ROUTINES
224
BASE STATION CONTROL ROUTINES
226
SCHEDULER MODULE
230
SIGNALING ROUTINES
232
DOWNLINK TONE HOPPING ROUTINE
ERROR CORRECTING MODULE
233
DATA/INFORMATION
DATA
234
DOWNLINK CHANNEL INFO
236
TONE INFO
237
238
WIRELESS TERMINAL(WT) DATA/INFO
240
WT 1 INFO
DATA
242
CONTROL INFO (SMALL BLOCK)
244
CONTROL INFO (INTER. BLOCK)
246
TERMINAL ID
248
SECTOR ID
250
ASSIGNED DOWNLINK CHANNEL INFO
252
WT N INFO
254
TO INTERNET

Figure 2

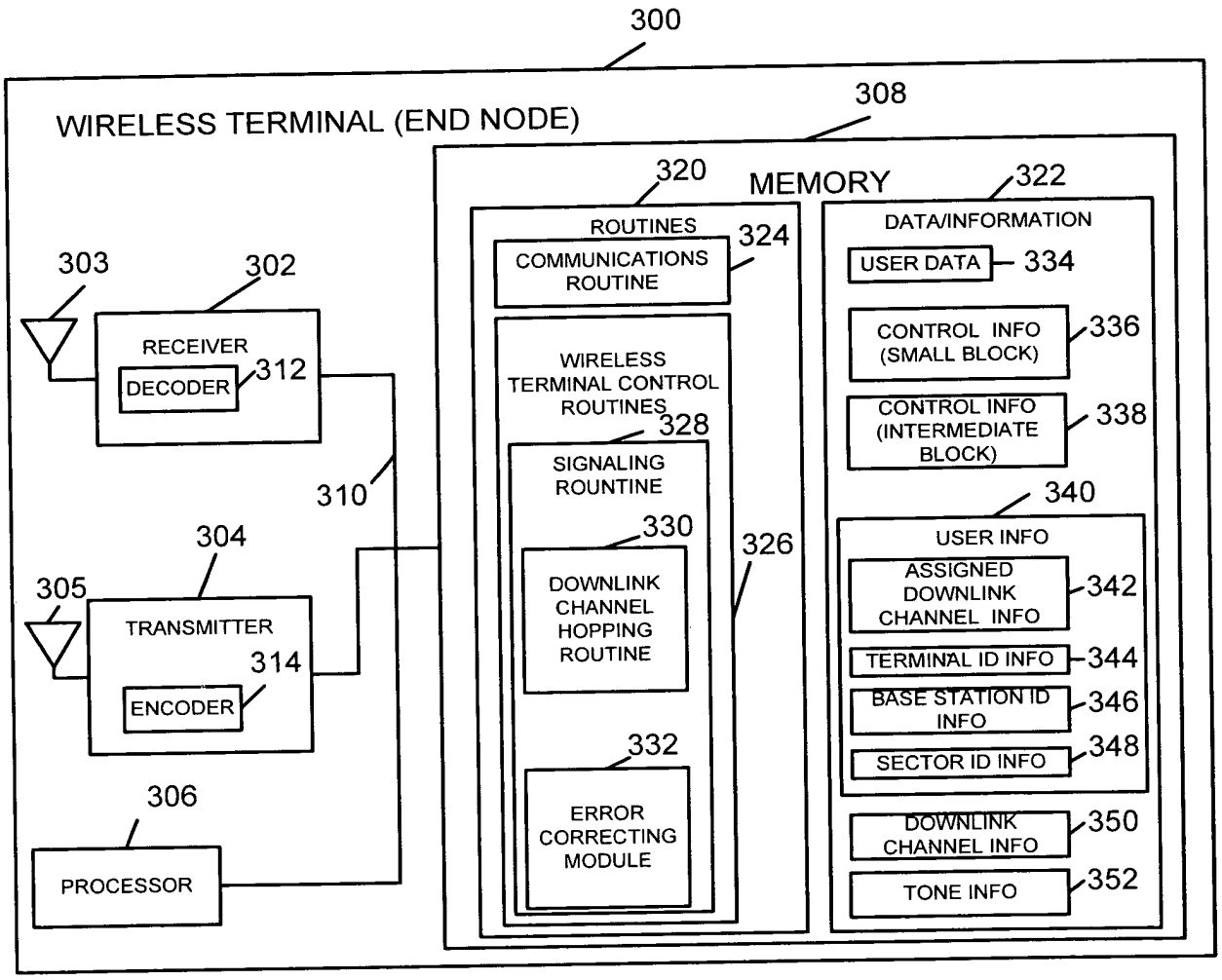
300
WIRELESS TERMINAL (END NODE)
308
MEMORY
320
ROUTINES
324
COMMUNICATIONS ROUTINE
WIRELESS TERMINAL CONTROL ROUTINES
328
SIGNALING ROUNTINE
330
DOWNLINK CHANNEL HOPPING ROUTINE
326
332
ERROR CORRECTING MODULE
322
DATA/INFORMATION
USER DATA
334
CONTROL INFO (SMALL BLOCK)
336
CONTROL INFO (INTERMEDIATE BLOCK)
338
340
USER INFO
ASSIGNED DOWNLINK CHANNEL INFO
342
TERMINAL ID INFO
344
BASE STATION ID INFO
346
SECTOR ID INFO
348
DOWNLINK CHANNEL INFO
350
TONE INFO
352
303
302
RECEIVER
DECODER
312
310
304
305
TRANSMITTER
314
ENCODER
306
PROCESSOR

FIGURE 3

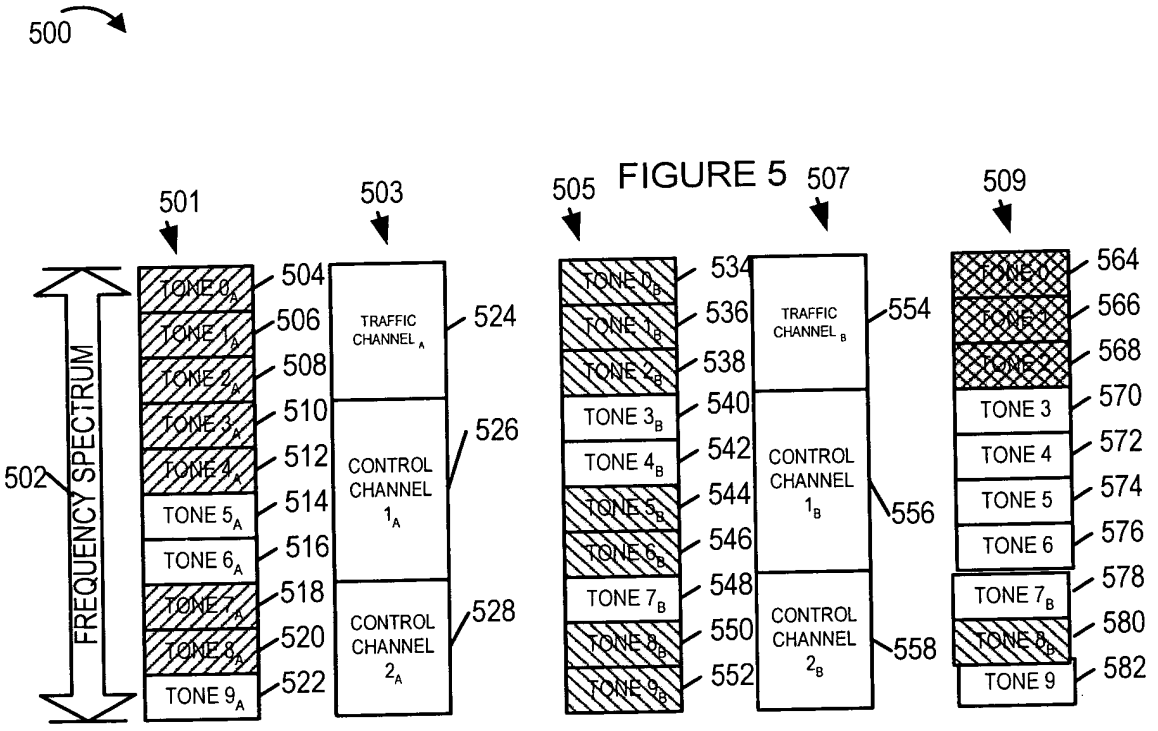


FIGURE 5

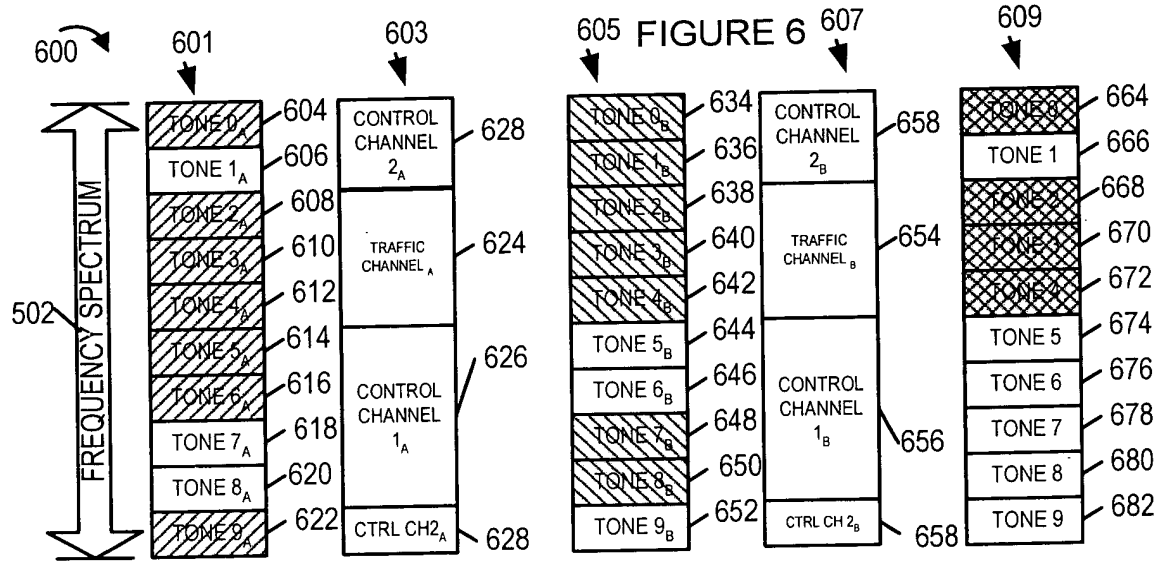


FIGURE 6

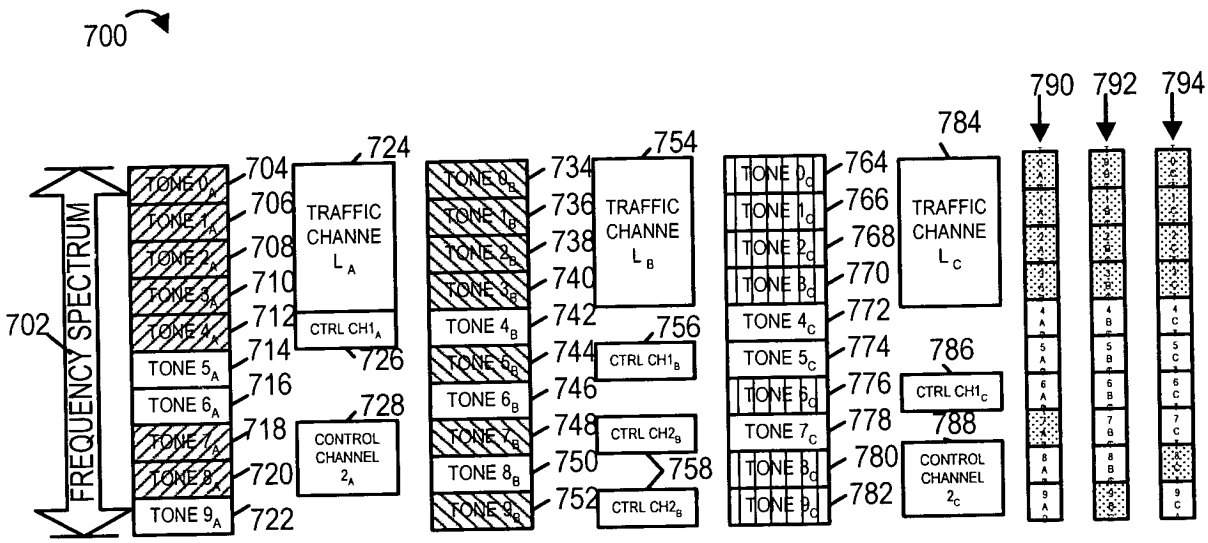
700
FREQUENCY SPECTRUM
702
TONE 0A
TONE 1A
TONE 2A
TONE 3A
TONE 4A
TONE 5A
TONE 6A
TONE 7A
TONE 8A
TONE 9A
704
706
708
710
712
714
716
718
720
722
TRAFFIC CHANNE L A
724
CTRL CH1A
726
CONTROL CHANNEL 2A
728
TONE 0B
TONE 1B
TONE 2B
TONE 3B
TONE 4B
TONE 5B
TONE 6B
TONE 7B
TONE 8B
TONE 9B
734
736
738
740
742
744
746
748
750
752
TRAFFIC CHANNE L B
754
CTRL CH1B
756
CTRL CH2B
758
CTRL CH2B
TONE 0C
TONE 1C
TONE 2C
TONE 3C
TONE 4C
TONE 5C
TONE 6C
TONE 7C
TONE 8C
TONE 9C
764
766
768
770
772
774
776
778
780
782
TRAFFIC CHANNE L C
784
CTRL CH1C
786
CONTROL CHANNEL 2C
788
790
792
794

FIGURE 7